

The Automatic Counting or Recording of Indications  
From Defects in Metal Products by the Ultrasonic  
Pulse Echo Method, by L. Beaujard, V. Bussarek,  
A. Vasset.

<sup>ENCL 4</sup>  
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pp 240-248.

Aluminim Laboratories, Ltd. Tr B-TM-181-55  
07/1761

Sci - Min/metals

39,421

Study of the Rolling and Recrystallization  
Textures of Extra Mild Steel Sheet, by J. Poncy,  
C. Crussard. UNCL

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Sci - Engr  
Sep 59

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The Two-Colour Pyrometer, by P. Rodicq, G. Maillet.  
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RIAL 2329

168, 491

Sep 61

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<p>Grosgras, H. W. FLAME HARDENING OF CAST IRON AND ITS PRACTICAL APPLICATIONS (La Trempe à la Flamme de la Fonte de Moulage et ses Applications Pratiques). [1963] [26p] (foreign text included) 14refs Order from SLA \$2.60 TT-64-10537</p> <p>Trans. of Revue de Metallurgie (France) 1965, v. 52, no. 7, p. 559-568.</p> <p>DESCRIPTORS: *Cast iron, *Hardening, Flames, Heat treatment, Surface properties, Metallography, Micro-structure, Machines, Structural parts, Shafts, Engine cylinders.</p> <p>(Metallurgy--Ferrous Metals, TT, v. II, no. 9)</p>	<p>TT-64-10537 L Grosgras, H. W.</p> <p>Office of Technical Services</p>
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by Bertrand Bibring and Francois Sebillon, 23 pp.

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No 7, 1955, pp 569-578.

Sci - Min/Met  
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AMC SCL-T-354  
AEC SCL-T-351

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J. L. Meijering. 3 pp.  
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\*MDS TT 70-57369

Sci-Chem  
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The Preferential Diffusion of Radioactive Iron  
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Relation to the Structure of the Boundary, by  
C. Leymarie. 10 pp.  
FRENCH, per, Revue de Metallurgie, Vol 54, 1957,  
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\*NBS TT 70-57558

Sci-Mat  
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Simultaneous Desulphurization and Decoxidation in the  
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FRANCHE, per, Rev Met, Aug 1955, pp 589-595.

British Iron and Steel Ind  
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Sci - Min/Met  
Aug 59

98-286

Considerations on Quantitative Micrography,  
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PARIS, per, Revue de Metallurgie, Vol LII,  
No 9, 1955, pp 876-890.

S.I.A. Tr 1201

Sci - Physics  
Jan 57 OTS

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Continuous Anodizing As Applied to Aluminum Wire, by  
H. D. Pullen, 12 pp.

FRENCH, per, Revue de Metallurgie, Vol LII, No 9,  
Sep 1955, pp 731-734.

S.L.A. No 383/1956

Scientific - Minerals/metals 34, 2 & 3

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FRENCH, per, Rev de ~~Sci~~ Vol LII, No 10, Oct  
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SLA 57-3325

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by H. J. Seeman, M. Sc.L. UNOL

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British Iron and Steel Ind  
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Scale Produced on Iron at High Temperatures,  
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PRANCE, per, Rev Met, No 11, 1955, pp 869-886.

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Mar 60

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X-Ray Measurements of Strain and Determination of  
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Co-op Tr Sch Tr 647

Sci - Min/Met  
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Rare Earth Metals, by Felix Trombe, 114 pp.

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Sci - Min/Met

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Contribution to the Study of the Diffusion of  
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Friction, by L. Guillet, 9 pp.  
1956, par, Rivue de Metallurgie, 53, 1956  
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Sed/chem  
Jul 70

Observations on the Recrystallization in Quenched  
Light Metal Products as a Function of Cooling  
Conditions Existing After Solution Treatment, by  
M. Fourmire, M. Renouard, 19 pp.

MOSCOW, Sov. Rev Met., Vol LIII, No 4, Apr 1956,  
pp 295-322.

SLA 51-51

Sci

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Diffusion of Argon in Silver, by A. D. La Claire.  
11 pp.  
FRENCH, par. Rev Met., Vol 52, 1955, pp 94-104.  
\*NBS TT 70-57664

Sc-Chem  
Jul 70

Process of Pre-Refining Pig Iron by Injection of Oxygen Enriched Air Into the Blast Furnace Hearth, by K. Kanazawa.

Transl., per, Revue Metallurgie, Vol. LVI,  
No 4, 1956, pp 307-310.

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(CRL/T 156)

Set - Engr  
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Applications of Microanalizer to Electric  
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C. Cressard. UICL.

RESEARCH, per, Rev Met., Jul 1956, pp 461-470.

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Improvements in the Technique of Hot Extrusion of  
Bimetallous Metals, by C. Lachard, 16 pp, (AF  
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Aug 1956, pp 569-574.

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Sci - Min? Metals  
Nov 57

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Basic Bessemer Steel Blown with A Mixture of  
Oxygen and Carbon Dioxide, by Boutonnet, UNCLASSIFIED  
*Boutonnet, J. M. et al.*

JRECHII, per, Rev Met, Aug/Sep 1956, pp 575-618,  
665-681.

*Low cost steel*

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Sci - Min/Metals  
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Photoelastic Determination of Elastic and Plastic Deformations and of Crystal Fragmentations in Metals, by Z. Zandman, 16 pp.  
FRENCH, per, Revue de Metallurgie, Vol LIII, No 8,  
1956, pp 638-644. 9696197  
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Sci - M/M  
Nov 64

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Determination of Nitrogen in Cast Iron, by  
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FRENCH, per, Rev Met, Vol LIII, No 9, 1956,  
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Sci - Min/met; Chem 573, 853  
Nov 57

Study of Inclusions in Ingots, by J. Moreau.  
URCL

FRENCH, per, Rev Met, Sep 1936, pp 703-714.

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Sci - Min/Met  
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The Activity of Carbon Dissolved in Liquid Iron, by A. Rist, J. Chapman.

RESEARCH, per, Metallurgical, Vol LIII, Oct 1956,  
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Temperatures, by R. Lecreix.  
FRANCE, par, Rev. de Metallurgie, No 53, 1956,  
pp 809-818.  
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Sci/Mab  
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Extrusion of Steel With Glass Lubricants, by  
Jacques Sejournet, 39 pp. (AF 1062839)

FRENCH, per, Revue de Metallurgie, Vol LIII, No 12,  
Dec 1956, pp 897-914. A 604410

ATIC F-18 9121/V

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Titanium, by Raoul de Vitry, <sup>31</sup> ~~xx~~ pp, (AP 1062839).

FRENCH, per, <sup>V</sup> ~~Revue de Metallurgie~~, Vol LIII, No 12,  
Dec 1956, pp 915-929. CIA 604410

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Sci-Chem, Min/Met

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Oct 57

Particular Structures Resulting From Extrusion  
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Berenguel, P. Lelong, (AF 1062839).

FRANCE, per, Revue de Metallurgie, Vol LIII, No 12  
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Simple Machines for the High Temperature Testing  
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~~Transl~~, Rev Met, No 2, 1957, pp 101-106.

Co-op Tr Sch  
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Sci - Eng  
Jul 58

SLA 614778

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Automatic Inspection in the Factory of Mild Steel  
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Methods, by V. Husarek. UECI.

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British Iron and Steel Ind  
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Sci - Phys; Electron  
Sep 59

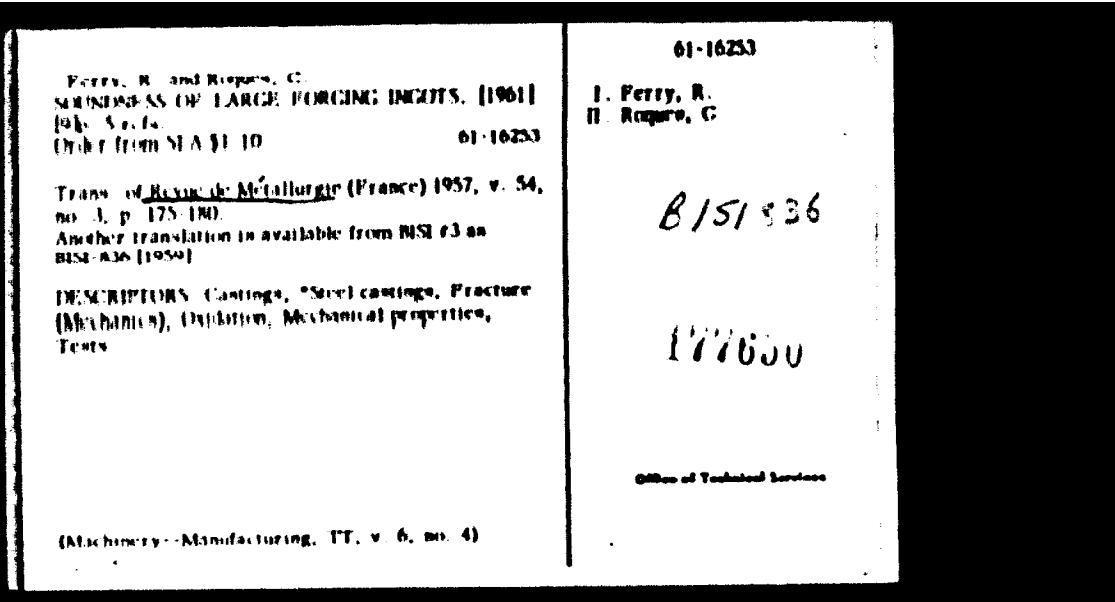
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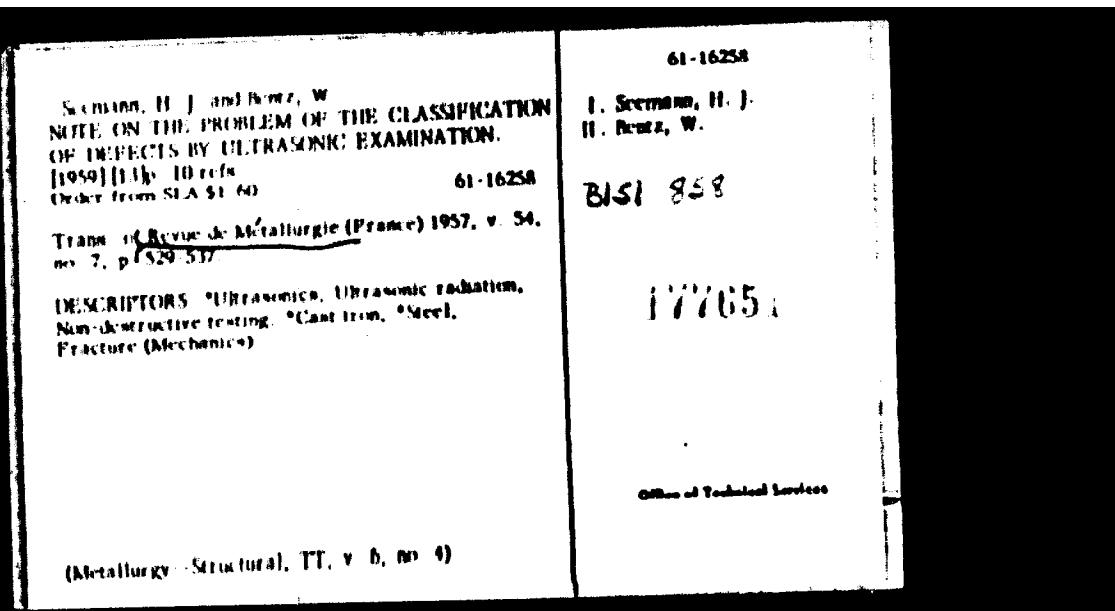
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GRANDES FONDRIES ET  
CUISSURES, par J. Pignot, E. de Kermerau. GACI  
FRANCAIS, par, Rev Met, Mar 1957, pp 169-174.

British Iron and Steel Ind  
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Sci - Phys  
Sep 59





Influence of Small Quantities of Aluminium on  
Certain Mechanical Properties of Nitrogen-Bearing  
Ferrite, by Flament.

FRENCH, per, Rev Met, Vol LIV, Jul 1957, pp 537-554.

Co-op Tr Serv Tr 638  
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Sci - Min/met  
Nov 57

Contribution To the Study Of the Oxidation Of Iron  
In Air In the Range 700-1250°C by J. Paidassi.

FRENCH, per, Revue De Metallurgie, Vol LIV, No 8,  
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Oct. 62

Study of Intermetallic Diffusion Phenomena in the  
Uranium-Zirconium System, by Y. ADEB, J. Philibert,  
R. Faraggi, 20 pp.

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pp 597-610.

SLA 58-304  
AEC tr 3102

Sci  
Jul 59

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Continuous Preirrefining of Hot Metal in the Blast Furnace Launder by Blowing Pure Oxygen Through Porous Tiles, by P. Leroy, R. Simon.

FRENCH, per, Revue De Metallurgie, Vol LIV, 1957,  
pp 703-812.

BISI 3047

sci  
Min/Ret  
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Continuous Prefining of Hot Metal in the Blast Furnace Launder by Blowing Pure Oxygen Through Porous Tiles (with two appendices), by P. Leroy, R. Simon.

FRANCE, per, Revue de Metallurgie, Vol LIV, 1957,  
pp 703-812

RHM 3047

Scd - N/M  
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224, 233

Rapid Tests for the Evaluation of the Hot Behavior  
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FRENCH, per, Rev Met, 1957, pp 733-736.

British Iron and  
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Sci - Min/Met  
Jan 59

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FRENCH, per, Rev Met, Vol LIV, 1957, pp  
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ABC 3319

Sci - Min/Met

Oct 58

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On the Weldability of Various Carbon or Alloyed Steels,  
by C. Roques, H. Lejay, Ch. Dubois, P. Bastian.

FRENCH, per, Revue de Metallurgie, Oct 1958, pp 1-23.

\*JPRS for NRL

Sci -  
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173-9185-(X)-60

Machine for the Study of Creep in a Higher Vacuum  
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FRENCH, por, Rev Mat, Jan 1958, pp 8-16.  
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CTS 11-11377

Sci - Engr ; Min/Met  
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Contribution à L'Amélioration de la Technique  
Graphique, by P. Rusult, R. Rath,

FRENCH, per, Revue de Metallurgie, Vol LV,  
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Jun 60

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Contribution to the Improvement of German  
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R. Fuchs, 20 pp.

FRENCH, per, Annales de Metallurgie,  
Vol LV, No 1, 1958, pp 39-52.

MINTON-1958

Sci  
Vol IV, No 7  
May 62

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Relations between Brittleness at High and Low  
Temperatures in 18-8 Type Austenitic Steels,  
by A. Gueussier, R. Castro, UNCL

FRENCH, per, Rev Mat, No 2, 1958, pp 107-122.

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MISI 1451

(18 15a.03.)

99 633

Sci - Min/Mat  
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Hydrodynamic and Practical Examination of the  
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by P. Leroy, O. Cohen Declaro. UNCL.

PARIS, per, Rev Met, Feb 1958, pp 186-200.

British Iron and Steel Ind 1962  
SLA 57-16-7

Sci - Phys  
Jan 59

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Steals for Welded Constructions and Receivers  
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PARIS, par, Revue De Metallurgie, Vol LIV,  
No 4, 1958, pp 323-332.

Sci - Min/Met  
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New Properties and Applications of Metals of Very  
High Purity, by Georges Chaudron, 31 p.

FRENCH, per, Revue de Metallurgie, 1958, Vol LV,  
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SLA 59-17777

Sci  
Feb 60  
Vol 2, No 9

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The Behaviour of Heat-Resisting Steels During Creep  
Testing at 500-700°C. UNCL

FRENCH, per, Rev Met, Dec 1958, pp 422-446.

British Iron and Steel Ind

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May 59 to Fortnightly List  
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The Preparation of Uranium Monocarbide and Its  
Reactions With Carbides of the Refractory Transi-  
tion Metals, by M. Novotny, R. Keffler, F. Benesov-  
sky, 13 pp.

VAKHIL, per, Rev Mat, Vol 17, 1958, pp 453-458.

ABC 3615

Sci - Mat/Mat

Dec 58

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Gendarmerie Casting and Its Problems, by G. Will,  
M. Petitdidier. UNCL

FRSNCH, per, Rev Met, No 5, 1958, pp 486-494.

British Iron and  
Steel Ind 1951 1051

Sci - Min/Met  
Apr 59

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Determination of Volume Self-Diffusion  
Constants of Iron in the  $\epsilon$  Phase by Means  
of Radioactive Isotopes, by C. Leymonie,  
P. Incombe, 13 pp.

FRENCH, per, Rev de Metallurgie, Vol LV,  
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ASC Tr 3531

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Sci - Min/Met  
Mar 59

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Spectrometric Analysis of Basic Bessemer Pig Iron  
and Steel by the Scanning Slit Method, by  
M. D. Jonckers, A. Daniels. UMCL

PRENCH, per, Rev Met, Jul 1958, pp 601-612.

British Iron and  
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Sci - Min/Met; Phys  
Aug 59

93, 415

Stress Corrosion Tests on Mild Steel, by A.  
Eduke. U.S.A.

METALL, PAR, PAR MET, Jul 1958, pp 656-676.

British Iron and  
Steel Ind 1148  
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Sci - Min/Met  
Apr 59

83, 809

Microfractographic Study of Fatigue Fracture Surfaces;  
Example of Application, by J. Plateau, C. Crussard,  
et al, 42 pp.

FRENCH, per, Revue de Metallurgie, Vol LV, No 7,  
1958, pp 679-695.

SLA 60-10748

203, 567

Sci  
Jul 62

Vol 4, No 12

Determination of Nozzle Sizes and Rates Adopted for the  
Teeming of Drawing Rimming Steel Flat Ingots, by  
L. Leclerc, J. Courreau. UNCL

FRENCH, per, Rev Mat, Aug 1958, pp 710-715.

British Iron and  
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(L2 15 0)

Sci - Min Mat  
Apr 59

SIA 61-18731

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Theory of the Evolution of Metals During  
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Creep, by W. Barrois.

FRENCH, per, Rivue de Metallurgie, Vol LIV,  
1958, pp 761 777.

NASA TT F-8070

Sci - Min/Metal  
26 Dec 61  
US GOV'T ONLY

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The Influence of Heat Treatment in the  $\gamma$ -phase  
on the Appearance of Substructures in Uranium  
and in Uranium-Chromium Alloys of Low Chromium  
Content, by A. Robillard, D. Calais, P. Lacombe,  
19 pp.

FRENCH, per, Rev de Metallurgie, Vol LV, No 9,  
1958, pp 815-828.

AEC RP Tr 82?

ATB 72128P

CIA 4011A

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Sci Min/Met  
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CIS I, 10

A Comparative Study of the Allotropic Transformations in Iron and Uranium, by P. Lehr,  
J. P. Langeron, 15 pp.

FRENCH, per, Rev de Metallurgie, Vol IV,  
No 9, 1958, pp 829-839.

Sci Min/Met            AMS 73-267  
Jun 59  
OBS I, 10

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Test Results Concerning the Influence Of Surface Treatments On the Fatigue Strength Of Some Titanium Alloys  
by R. Develay and H. Richaud.

FRENCH, per, Revue De Metallurgie, Vol IV, No 9, 1958,  
pp 853-859

CSIRO

Oct. 62

Galmiche, Ph. and Hiver, A.

METALLURGICAL APPLICATION OF POWDERS IN REDUCING HALOGEN ATMOSPHERE AT THE EQUILIBRIUM. V. OBTAINING PLASTIC CHROMIUM POWDER AND FRITTING CHROMIUM IN A HALOGEN ATMOSPHERE (Applications dans la Métallurgie des Poudres des Atmosphères Réductrices Halogénées à l'Équilibre. V. Obtention de Poudre de Chrome Plastique et Frittage de Chrome en Atmosphère Halogénée) tr. by June R. Hauger. [1960] [12p. (8 figs. omitted)]. Order from OTS or SLA \$1.60 60-15286

Trans. of Revue de Métallurgie (France) 1958, v. 55, no. 10, p. 913-917.

DESCRIPTORS: \*Powder metallurgy, \*Halogens, Reduction, \*Chromium, Plasticizers, Powder alloys, \*Controlled atmosphere.

(Metallurgy, TT, v. 8, no. 4)

60-15286

- I. Title: Frittage
- I. Galmiche, P.
- II. Hiver, A.
- III. Department of the Interior, Washington, D. C.
- IV. Title: Obtaining ...
- V. Title: Obtention

S-16-62

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Deformation Structures in an 18/10 Stainless Steel, by B. Jacoul.

FRENCH, per, Revue de Metallurgie, Vol LV,  
No 10, 1958, pp 976-992.

CSIRO

Sci - Min/Met

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Experimental Study of Hot Deformation of Steels  
and Alloys, by A. Guenassier, R. Castro. UNCL

PARIS, per, Rev Met, Nov 1958, pp 1023-1041.

British Iron and  
Steel Ind 1189

(L 10)

SL 61-1023-1

V, NO. 5

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Sci - Min/Met  
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Growth and Morphology of Oxide Films on Iron at High Temperatures, by J. Moreau, M. Daigrot. UAGL

SAFETY, p. 2, Vol Met, Nov 1958, pp 1093-1102.

British Iron and  
Steel Inst 1225

(L7 108.0J.)

Sci - Min/Met  
Sep 59

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Grain Refining of Uranium, by J. Lehmann, H. Aubert,  
17 pp.

FRENCH, per, Rev Met, Vol IV, 1958, pp 1188-1194.

AEC/EM Tr 1

Sci - Min/Met

Jun 59

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Construction and Operation of Open Hearth Furnaces  
Fired by Methane and Fuel Oil, by Luigi Bruno,  
34 pp.

FRENCH, per, Revue de Metallurgie, Vol LV,  
No 12, 1958, pp 1113-1125.

SLA 59-15837

Sci  
Dec 59  
Vol 2, No 4

102,685

The Relation Between the Distance of an Indication  
From the Surface and Its Effect on Fatigue  
Cracking, by H. de Lairis, E. Frappier. URCL.

FRANCE, Rev. Mat., No 1, 1959, pp 11-24.

RSI 1263

(36)

Sci. & Min/Mat  
Dec 59

101,465

Bauden, Paul and Salmonet, Alain.  
PHYSICO-CHEMICAL REACTIONS OCCURRING IN  
18% CHROMIUM STEEL AND 2.4 OR 6% NICKEL  
STEEL. [1963] [25]p. 9 refs.  
Order from SLA \$1.60

63-14661

Trans. of Revue de Métaux (France) 1969, v. 56,  
no. 1 [Jan] p. 40-45.

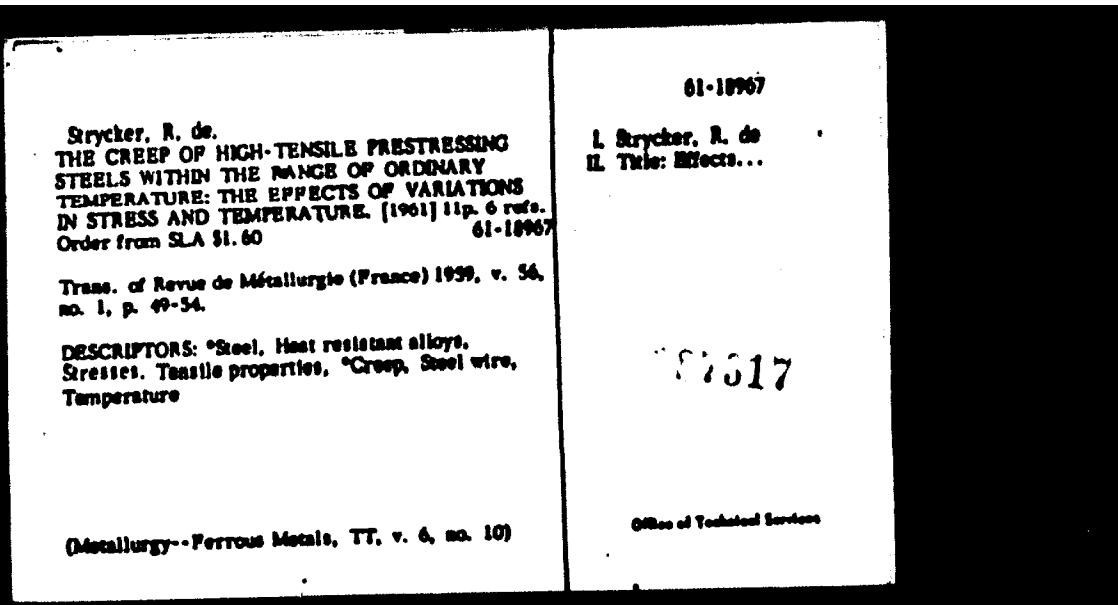
DESCRIPTORS: \*Steel, Nickel alloys, Chromium  
alloys, Chemical reactions, \*Stainless steel,  
Strategic materials, Transformations, Microstructure.

(Metallurgy--Ferrous Metals, TT, v. 10, no. 3)

63-14661

I. Bauden, P.  
II. Salmonet, A.

Office of Technical Services



Preparation and Sintering of Uranium Under  
Load, by J. Dubuisson, A. Mongvet, E. Le Boulbin,  
R. Lucas, C. Moreauville, 15 pp.

FRENCH, per, Rev Met, Vol LVI, 1959, pp 55-60.

AMC EW-Tr-6

Sci - Min/Met

Oct 59

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Measurement of the Activation Energy of  
Intergranular Diffusion of Fe, by  
C. Leymonie, 7 pp.  
FRENCH, per, Mem. Scient. Rev. Metallurg.  
56, 1959, pp. 74-80.  
•NBS TT 70-57624

Sci/mater  
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Contribution to the Physical Investigation of  
Fatigue Damage, by M. Weiss. UMCL

FRENCH, per, Rev Mat, Jan 1959, pp 83-103.

British Iron and Steel Ind 1264

Sci - Min/Mat  
Aug 59

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Influence of the Surface State on Some  
Properties of Uranium, by C. Sella, J. J.  
Trillat, 38 pp.

FRANCE, par, Rev Mat, Vol LVI, 1959, pp  
105-121.

ABC BN-Br-5

Sci - Min/Mat

Oct 59

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Relation Between Processing Conditions and the  
Structure and Properties of Al-1 25% Manganese  
Alloys, by M.K.B. Day.

FRENCH, per, Les Memoires Scientifiques de la  
Revue de Metallurgie, Vol. 56, No. 2, 1959,

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Sci -  
Aug 67

336-074

Results Obtained With an Electrostatically Excited  
Extensometer (Elastometer), by R. Cabarat, 21 pp.

FRANCE, per, Mem. Sci. Rev. Met., Vol LVI, No 2,  
1959, pp 144-150.

ABC SCL-T-359

Sci -  
W Jun 61

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Influence of the Purity and Structural State of  
Iron on Its Suitability for Charging in Cathodic  
Hydrogen, by S. Besnard, J. Tairot. UNCL

FRENCH, per, Rev Met, Feb 1959, pp 163-170.

AISI 1380

(15)

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Sci - Min/Met;  
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Improvement in the Production of Open-Hearth  
Furnaces Heated by Low Calorie Gas by the  
Injection of Compressed Fluids Into their Gas  
Burners, by L. Septier, et al.

FRENCH, per, Revue Metallurgie, Feb 1959,  
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